| **Hands-on Prelim Exam** | |
| --- | --- |
| **Name:** Torrecampo, Juan Piolo S. | **Date Performed:** Sep 20, 2022 |
| **Course/Section:** CPE 232 / CPE31S22 | **Date Submitted:** Sep 20, 2022 |
| **Instructor:** Dr. Jonathan Taylar | **Semester and SY:** 1st Sem, 2022 - 2023 |
| **Tools Needed** | |
| * Control Node (CN) - 1 * Manage Node (MN) - 1 Ubuntu * Manage Node (MN) - 1 CentOS | |
| **Procedure** | |
| 1. Note: You are required to create a document report of the steps you will do for this exam. All screenshots should be labeled and explained properly. 2. Create a repository in your GitHub account and label it as Surname\_PrelimExam.     **Figure 1.1. The screenshot above shows the Github page where I am in the process of creating a new repository named “Torrecampo\_PrelimExam”.**   1. Clone your new repository in your CN.     **Figure 1.2. Copying the ssh link of the created repository.**    **Figure 1.3 Cloning the new repository using “git clone ssh\_link‘ command, where the ssh\_link is the link for the github repository. After cloning, I change my current directory to the repository directory.**   1. In your CN, create an inventory file and ansible.cfg files.     **Figure 1.4. Creating the two files using the “touch” command and verifying it using “ll” command.**    **Figure 1.5. The screenshot above shows the contents of the inventory file.**    **Figure 1.6. The screenshot above shows the contents of the ansible.cfg file.**    **Figure 1.7. Checking the ssh connection between control nodes and manage nodes.**    **Figure 1.8. Testing pinging the two managed nodes using the “ansible all -m ping” set of commands.**   1. Create an Ansible playbook that does the following with an input of a config.yaml file for both Manage Nodes  * Installs the latest python3 and pip3 * use pip3 as default pip * use python3 as default python * Install Java open-jdk * Create Motd containing the text defined by a variable defined in config.yaml file and if there is no variable input the default motd is "Ansible Managed node by (your user name)" * Create a user with a variable defined in config.yaml     **Figure 1.9. The screenshot above shows the creation of “config.yml” and verifying it using the “ll” command.**    **Figure 1.10. The screenshot above shows the contents of config.yml.**    **Figure 1.11. The screenshot above shows the contents of the inventory file.**  **Figure 1.12. The screenshot above shows the result of the ansible playbook.**  **VERIFICATION OF TASKS**   | **Verification of Installed Package** | | | | --- | --- | --- | | **Package Name** | **Ubuntu Server** | **CentOSServer** | | **python3** |  |  | | **python3-pip** |  |  | | **Java OpenJDK** |  |  |   **Table 1.1. The table above shows the screenshot of package verification on both servers.**   | **Verifying aliases under .bashrc** | | | --- | --- | | **Ubuntu Server** | **CentOS Server** | |  |  |   **Table 1.2. The table above shows the screenshot of alias verification on both servers.**   | **Verifying the MOTD Banner** | | | --- | --- | | **Ubuntu Server** | **CentOS Server** | |  |  |   **Table 1.3. The table above shows the screenshot of MOTO verification on both servers.**   | **Verifying Added User** | | | --- | --- | | **Ubuntu Server** | **CentOS Server** | |  |  |   **Table 1.4. The table above shows the screenshot of verification of added user on both servers.**  5. PUSH and COMMIT your PrelimExam in your GitHub repo    **Figure 1.13. Performing the steps of pushing a repository to the Github.**    **Figure 1.14. The screenshot above shows the web page of the updated repository.**  6. Your document report should be submitted here.  7. For your prelim exam to be counted, please paste your repository link here.  **Github Link:** [piolotorrecampo/Torrecampo\_PrelimExam (github.com)](https://github.com/piolotorrecampo/Torrecampo_PrelimExam) | |
| **Honor Pledge** | |
| *“I affirm that I will not give or receive unauthorized help on this activity and that all will be my own.”* | |